

IN THE U.S. PATENT AND TRADEMARK OFFICE  
Patent Application Transmittal Letter

Mail Stop Patent Application  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n): ☒ Utility ☐ Design

☒ original patent application,  
☐ continuation-in-part application

INVENTOR(S): Lung Tran

TITLE: THERMAL-ASSISTED SWITCHING ARRAY CONFIGURATION FOR MRAM

Enclosed are:

- ☒ The Declaration and Power of Attorney. ☒ signed ☐ unsigned or partially signed  
☒ 4 sheets of drawings (one set) ☐ Associate Power of Attorney  
☐ Form PTO-1449 ☒ Information Disclosure Statement and Form PTO-1449  
☐ Priority document(s) ☐ (Other) (fee \$ )

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	25 — 20	5	X \$18	\$ 90
INDEPENDENT CLAIMS	4 — 3	1	X \$84	\$ 84
ANY MULTIPLE DEPENDENT CLAIMS	0		\$280	\$ 0
BASIC FEE: Design ( \$330.00 ); Utility ( \$750.00 )				\$ 750
TOTAL FILING FEE				\$ 924
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 924

Charge \$ 924 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

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Date of Deposit Sept. 22, 2003

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By   
Typed Name: Daniel W. Roberts

Respectfully submitted,

Lung Tran

By 

Daniel W. Roberts

Attorney/Agent for Applicant(s)  
Reg. No. 52,172

Date: Sept. 22, 2003

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September 22, 2003

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attorney Docket No. 200310247-1

Dear Sir:

Presented for filing is a new patent application:

Applicant: **LUNG TRAN**

Title: **THERMAL-ASSISTED SWITCHING ARRAY CONFIGURATION FOR  
MRAM**

Enclosed are the following papers, including those required to receive a filing date under 37 CFR §1.53(b):

	<u>Pages</u>
Transmittal Letter	<u>2</u>
<b>Application</b>	
Cover	<u>1</u>
Specification	<u>13</u>
Claims	<u>5</u>
Abstract	<u>1</u>
Drawing(s)	<u>4</u>
Declaration with POA	<u>1</u>
IDS	<u>1</u>
PTO-1449	<u>2</u>
-- 4 US Patents, 1 US Application, 1 Publication for PTO-1449	
Two Postcards	<u>2</u>

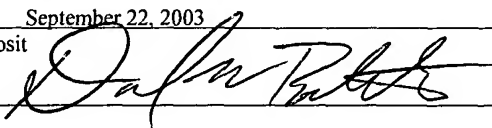
CERTIFICATE OF MAILING BY EXPRESS MAIL

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September 22, 2003  
Date of Deposit

Signature



Daniel W. Roberts

Typed or Printed Name of Person Signing Certificate

Total Claims 25; Independent Claims 4.

Basic filing fee .....	\$750
Total claims in excess of 20 times \$18 (5 X \$18) .....	\$90
Independent claims in excess of 3 times \$84 (1 X \$84) .....	\$84
Fee for multiple dependent claims .....	\$0
Total filing fee: .....	\$924

NO MULTIPLE DEPENDENT CLAIMS HAVE BEEN PRESENTED.

Please apply any other required fees, to deposit account 08-2025, referencing the attorney document number shown above.

If this application is found to be incomplete, or if a telephone conference would otherwise be helpful, please call the undersigned at (480) 905-8382.

Kindly acknowledge receipt of this application by returning the enclosed postcards.

**Please use our Customer No. 022879 in connection with this application.**

Please send all correspondence to:  
HEWLETT-PACKARD DEVELOPMENT COMPANY  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, Colorado 80527-2400

Please direct telephone calls to:  
Brian Short  
650-236-4890

Respectfully submitted,

Date: Sept 22, 2003



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